

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED DNA POLYMERASE HAVING ABILITY TO REDUCE INNATE SELECTIVE DISCRIMINATION AGAINST FLUORESCENT DYE-LABELED DIDEOXYNUCLEOTIDES

the specification of which (CHECK applicable BOX(ES))
 is attached hereto.
 BOX(ES) was filed on September 21, 1998 as U.S. Application No. /
 was filed as PCT International Application No. PCT/ / on
 (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

PRIOR FOREIGN APPLICATION(S) Number	Country	Day/MONTH/Year Filed	Date first Laid-open or Published	Date Patented or Granted	Priority Claimed Yes No
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I hereby claim domestic priority benefit under 35 U.S.C. 119/120/365 of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S) Application No. (series code/serial no.)	Day/MONTH/Year Filed	Status pending, abandoned, patented	Priority Claimed Yes No
08/544,643	18 October 1995	patented	x
08/642,684	3 May 1996	pending	x

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint Pillsbury Madison & Sutro LLP, Intellectual Property Group, 1100 New York Avenue, N.W., Ninth Floor, East Tower, Washington, D.C. 20005-3918, telephone number (202) 861-3000 (to whom all communications are to be directed), and the below-named persons (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and I hereby authorize them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct the above Firm and/or a below attorney in writing to the contrary.

Paul N. Kokulis	16773	David W. Brinkman	20817	G. Paul Edgell	24238	Richard H. Zaitlen	27248
Raymond F. Lippitt	17519	Donald J. Bird	25323	Lynn E. Eccleston	35861	Roger R. Wise	31204
G. Lloyd Knight	17698	Peter W. Gowdey	25872	Timothy J. Klima	34852	Jay M. Finkelstein	21082
Carl G. Love	18781	Dale S. Lazar	28872	David A. Jakopin	32995	Anita M. Kirkpatrick	32617
Edgar H. Martin	20534	Paul E. White, Jr.	32011	Mark G. Paulson	30793	Michael R. Dzwonczyk	36787
William K. West, Jr.	22057	Glenn J. Perry	28458	Stephen C. Glazier	31361	W. Patrick Bengtsson	32456
Kevin E. Joyce	20508	Kendrew H. Colton	30368	Paul F. McQuade	31542		
George M. Sirilla	18221	Michelle N. Lester	32331	Ruth N. Morduch	31044		

(1) INVENTOR'S SIGNATURE: Guofan Huang

Date: 6 Oct. 1998

First	Middle Initial	Family Name
Residence	Shanghai	China
City	State/Foreign Country	Country of Citizenship
Post Office Address (include Zip Code)	Apartment 523, Lane 305, An Shun Road, Shanghai, The People's Republic of China 200051	

(2) INVENTOR'S SIGNATURE: Wei-hua Huang

Date: 6 Oct. 1998

First	Middle Initial	Family Name
Residence	Zhejiang	Province, PRC (PC 315010)
City	State/Foreign Country	Country of Citizenship
Post Office Address (include Zip Code)	704, No. 5, Lane 35, Yun-Shi, Ningbo, Zhejiang Province, PRC (PC 315010)	

(FOR ADDITIONAL INVENTORS, check box to attach PAT 116-2 same information for each re signature, name, date, citizenship, residence and address.)

Rule 56(a) & (b) = 37 C.F.R. 1.56(a) & (b)
PATENT AND TRADEMARK CASES - RULES OF PRACTICE
DUTY OF DISCLOSURE

(a) ...Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the [Patent and Trademark] Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability... (b) information is material to patentability when it is not cumulative and (1) It also establishes by itself, or in combination with other information, a prima facie case of unpatentability of a claim or (2) refutes, or is inconsistent with, a position the applicant takes in: (i) Opposing an argument of unpatentability relied on by the Office, or (ii) Asserting an argument of patentability

PATENT LAWS 35 U.S.C.

§102. Conditions for patentability; novelty and loss of right to patent

A person shall be entitled to a patent unless--

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for patent or

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States, or

(c) he has abandoned the invention, or

(d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months* before the filing of the application in the United States, or

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent, or

(f) he did not himself invent the subject matter sought to be patented, or

(g) before the applicant's invention thereof the invention was made in this country by another who had not abandoned, suppressed, or concealed it. In determining priority of invention there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

§103. Condition for patentability; non-obvious subject matter

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made. Subject matter developed by another person, which qualified as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person

* Six months for Design Applications (35 U.S.C. 172).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
POWER OF ATTORNEY

Docket No.

LEE-104

Name of Applicant: **Wei-Hus Huang**
Address of Applicant: **784, No. 5, Lane 35**
Yun-Shi, Ningbo
Zhejiang Province, The People's Rep. of China PC315010

Title: **DNA Polymerase Having Ability to Reduce Innate Selective Discrimination
Against Fluorescent Dye-Labeled Dideoxynucleotides**
Serial No., If Any: **09/157,397**
Filed: **September 21, 1998**

TO THE ASSISTANT COMMISSIONER FOR PATENTS

The Assistant Commissioner for Patents
Washington, D.C. 20231

Honorable Sir:
I hereby appoint:

Mariana Titus, Reg. No. 35,843 and Caroline Nash, Reg. No. 36,329
both of
Nash & Titus

as principal attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please direct all future correspondence to:
Nash & Titus, LLC
Attn: Mariana Titus
3415 Brooksville Road
Suite 1000
Brooksville, MD 28833

X By: Wei-Hus Huang
Wei-Hus Huang

Y Dated: 12/27/99

Title: _____

**SMALL ENTITY STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27 (b)) - NONPROFIT ORGANIZATION**

I hereby state that I am an official empowered to act on behalf of the nonprofit organization identified below.

NAME OF ORGANIZATION Shanghai Institute of Biochemistry, Chinese Academy of Sciences

ADDRESS OF ORGANIZATION Shanghai, China

TYPE OF ORGANIZATION

UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION

TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) AND 501(c)(3))

NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA
(NAME OF STATE)
(CITATION OF STATUTE)

WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) AND 501(c)(3)) IF LOCATED IN THE UNITED STATES OF AMERICA

WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA
(NAME OF STATE)
(CITATION OF STATUTE)

I hereby state that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, with regard to the invention entitled **DNA POLYMERASE HAVING ABILITY TO REDUCE INNATE SELECTIVE DISCRIMINATION AGAINST FLUORESCENT DYE-LABELED DIDEOXYNUCLEOTIDES** by the inventor(s) in Guo Fan HONG and Wei-hua HUANG

x → the specification filed herewith
one → Application No. , filed September 21, 1998
box → Patent No. , issued

I hereby state that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each small entity individual, concern or organization having rights to the invention is listed below in (A) and (B) and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

(A) FULL NAME of assignee/licensee/grantee/conveyee*
ADDRESS

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

(B) FULL NAME of assignee/licensee/grantee/conveyee*
ADDRESS

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

*NOTE: Separate statement is required from each person, concern or organization named in (A) and (B) above having rights to the invention, avowing to his/her/its status as a small entity. (37 CFR 1.27)

I acknowledge the duty to file, in this case, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

NAME OF PERSON SIGNING

Gao Xiang

TITLE IN ORGANIZATION

Director of Research & Development Department in Shanghai Institute of Biochemistry, Chinese Academy of Sciences

ADDRESS OF PERSON SIGNING

320 Yue Yang Road, Shanghai 200031

SIGNATURE

Gao Xiang

DATE

98.10.12